User

Wednesday, 2/15/2006 3:46:39 PM

Kim Johnston

**Process'Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

**Job Number** Estimate Number : 25841

P.O. Number

: 10330

This Issue

First Issue

Written By

**Previous Run** 

:NIA .

: 2/15/2006 Prsht Rev.

: NC

: MIA : 24149

S.O. No. : NIA

Type

: PURCHASED PARTS

Checked & Approved By

Comment

: Est:

**Drawing Name** 

Part Number **Drawing Number** 

Material

: D2746 D2746 REV BC : N/A

: WEARSHOE

**Project Number Drawing Revision** 

:NIA

06.02.16

: 3/3/2006 **Due Date** 

50

Each.

**Additional Product** 

Job Number:



Seq. #:

1.0

Machine Or Operation:

Description:

U

**PURCHASING** 

Comment: PURCHASING

Issue P/O:

Email or ship DXF file to vendor

Laser Cut per Dwg D2746 flat pattern D2746.

Material release note required

2.0

D2746F

Wearshoe



Comment: Qty.: 1.0000 Each(s)/Unit

Total:

50.0000 Each(s)

WEAR PLATE

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure material release note is attached

4.0

DIMENSIONAL CHECK

Comment: DIMENSIONAL CHECK

Inspect dimensions per template D2746T1

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

· Deburr if necessary.

FB 04/03/16 50

# Dart Aerospace Ltd

W/O:		WORK ORDER CHA	ANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			^				
Part No		PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: 🔿	6/03/21

QA: N/C Closed: \_\_\_\_ Date: \_\_\_

NCR:	344		WORK OR	DER NON-CONFORMANCE (I	NCR)			
		Description of NC		Corrective Action Section B		Verification	A	A
DATE	STEP	Section A	Initial Chief Eng		Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto
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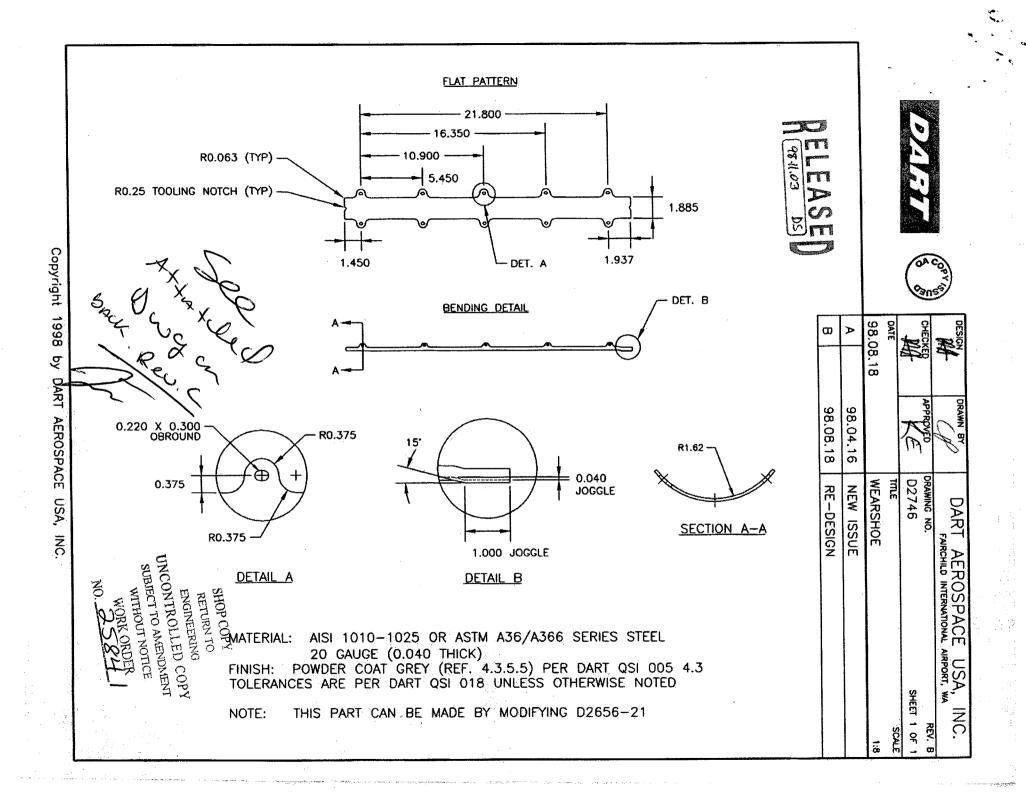
NOTE: Date & initial all entries

Date: Wednesday, 2/15/2006 3:46:39 PM Kim Johnston /User: / ⋅ **Process Sheet Drawing Name: WEARSHOE** Customer: CU-DAR001 Dart Helicopters Services Part Number: D2746 Job Numbér: 25841 Job Number: Description: Seq. #: **Machine Or Operation:** BRAKE NC NC BRAKE 6.0 Comment: NC BRAKE 1-Form on CNC Brake as per Dwg D2746 using Jigs DT8261and DT8326 2-Form joggle on Punch as per Dwg D2746 using Jig DT8158Identify as D2746 INSPECT WORK TO CURRENT STEP QC5 7.0 Comment: INSPECT WORK TO CURRENT STEP POWDER COATING POWDER COATING . 8.0 Comment: POWDER COATING Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CONVERSION 9.0 QC3 POWDER COAT/CHEMICAL CONVERSION -PACKAGING RESOURCE #1 10.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: EP 11.0 DC DOCUMENT CONTROL Comment: DOCUMENT CONTROL Inspection Level 21 U 06.03.21 Job Completion

## **Dart Aerospace Ltd**

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W/O:			WC	ORK ORDER CHAN	NGE2	<u>-</u>		1	· · · · · · · · · · · · · · · · · · ·	T
DATE	STEP	PR	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR	: Yes	No <b>DQ</b>	A:	Date:	
	-					QA: N	C Close	d:	Date:	
NCR:			WORK ORDI	ER NON-CONFORM	MANCE	(NCR	)			
DATE	STEP	Description of NC			ection B		Verific	ation	Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	n	Sign & Date	Secti		Chief Eng	QC Inspector
										-
				-	:					

NOTE: Date & initial all entries



#### Linda Lacelle

From:

Sent:

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To:
                     Linda Lacelle
                     Re: D2746 wearshoe under review
Subject:
You got it,
I'll supply this revision...
Jeff Mostat
Production Mgr.
Industrial Laser Cutting
ph.(604) 946-4152 ext.224
fax(604) 946-4153
---- Original Message -----
From: "Linda Lacelle" < llacelle@dartaero.com>
To: "Jeff Mostat (E-mail)" <jeff@industriallaser.com>
Sent: Thursday, March 02, 2006 9:02 AM
Subject: FW: D2746 wearshoe under review
> new flat pattern
> ----Original Message----
> From: Peter Hum [mailto:phum@dartaero.com]
> Sent: Thursday, March 02, 2006 11:50 AM
> To: 'Linda Lacelle'
> Subject: RE: D2746 wearshoe under review
>
>
 ----Original Message----
> From: Linda Lacelle [mailto:llacelle@dartaero.com]
> Sent: Thursday, March 02, 2006 11:46 AM
> To: 'Peter Hum'
> Subject: RE: D2746 wearshoe under review
> yes pls
> ----Original Message----
> From: Peter Hum [mailto:phum@dartaero.com]
> Sent: Thursday, March 02, 2006 11:37 AM
> To: 'Linda Lacelle'; 'Kim Johnston (E-mail)'; 'Jean-Luc Menard
 (E-mail)'; 'Eric Charbonneau (E-mail)'
> Subject: RE: D2746 wearshoe under review
> If you can cancel it, please do it
> The revision requires a new flat pattern
> I have the signed and released drawing of D2746, Rev C
> Do you want me to e-mail the new .dxf file to you Linda?
> Peter
```

Jeff Mostat [jeff@industriallaser.com]

Thursday, March 02, 2006 1:09 PM

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> ----Original Message----
> From: Linda Lacelle [mailto:llacelle@dartaero.com]
 > Sent: Thursday, March 02, 2006 11:32 AM
 > To: 'Peter Hum'; 'Kim Johnston (E-mail)'; 'Jean-Luc Menard (E-mail)';
 > 'Eric Charbonneau (E-mail)'
 > Subject: RE: D2746 wearshoe under review
 > presently have 50 on order, should I cancel if it's not too late?
 > ----Original Message----
 > From: Peter Hum [mailto:phum@dartaero.com]
 > Sent: Thursday, March 02, 2006 11:19 AM
 > To: Kim Johnston (E-mail); Jean-Luc Menard (E-mail); Eric Charbonneau
 > (E-mail)
 > Cc: Linda Lacelle (E-mail)
 > Subject: D2746 wearshoe under review
 > D2746 wearshoe DWG, REV B is under review.
 > All current production and in stock is okay
 > 1) Please place the estimate and drawings under review
 > 2) Linda, please do not order any new D2746 REV B
 > Thank you,
 > Peter
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New Zestand Steel Limited Glambrook, South Auckland Postat: Private Bag 92121, Auckland, New Zestand Telephones: (00) 375 8999 / 375 8111 Auckland (00) 236 8089 / 239 3335 Waislau Fest: (09) 375 8859

### **TEST CERTIFICATE**

Ref: 5748/25194

Reissued 1/12/2005 TC122432 CERTIFICATE No CUSTOMER SPECIFICATION ASTMA1008 CS Type A Wilkinson PRODUCT CRA WIDE COIL PAGE 1 of 1 CUSTOMER ON 98-21N-963 DIMENSIONS 0.955" × 48" × Cell DATE 29 November 2005 MILL OW CHEMICAL COMPOSITION PERCENT MECHANICAL TESTS ITEST SPECIFICATION -ASTMAJ70 C Ni TI N2 CE( ) Cu Cr Mo PACK NUMBER Si Mn BEND YIELD %ELONG HARDNESS LENGTH HEAT NO x10000 x100 G.L.= HRR ( ) (feet) x100 x1000 Good R9-470783-86 R9-470784-00 Good R9-470785-00 Good Good R9-470786-00 R9-470787-00 Good Good R9-470788-00 R9-470789-00 Good R9-470790-00 Good R9-470791-00 TR . 19 Good R9-478792-08 TR Good TR R9-470793-00 Good R9-470794-00 TR Good R9-471202-00 Good R9-471203-00 Good R9-471204-00 € Good R9-471205-00 Good 

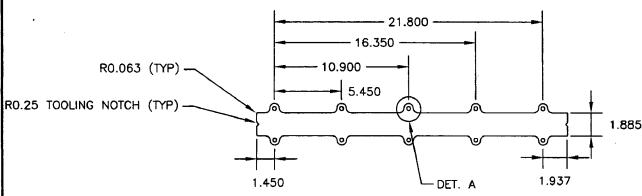
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YIELD	GAUGE LEN	IGTH (G.L.)		PLASTIC S	STRAIN RATIO (1)	IMPACT TEST	(C)=5mm x 5mm	CARBON EQUIVALENT VALUE (CE)		
(A)=0.2% PROOF STRESS	(A)=200mm	(C)=00mm	(E)=2°	(A)=r0	(C)=r45	(A)=10mm x 10mm	(D)=2.5mm x 10mm	(A)=C+Mn/6	(C)=C+Mn/6+Si/24	į
(B)=LOWER YIELD STRESS	(8)=50mm	(TD)=5.65 7 So	(F)=3"	(B)≈r90	(D)=(10+r90+2r45) / 4	(B)=7.5mm x 10mm	(E)=5mm x 10mm	(B)=C+Mn/6+(Cr+V+Mo)/5+(Cu+Ni)/15	(D)=	

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

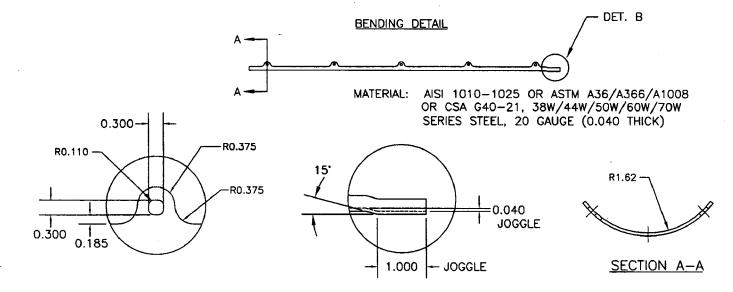
APPROVED ANTISH MISYS

P/0 403









DETAIL A

DETAIL B

#### **NOTES**

- 1) MATERIAL:
- AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21,
- 38W/44W/50W/60W/70W SERIES STEEL.
- 20 GAUGE (0.040 THICK)
- 2) FINISH:
- POWDER COAT GREY SANDTEX (REF. 4.3.5.6) PER DART QSI 005 4.3
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) THIS PART CAN BE MADE BY MODIFYING D2656-21

 DESIGN	DRAWN BY	DART AEROSPACE USA, INC.
 <i>[4]</i>	FH	PORT HADLOCK, WA
CHECKED //	APPROVED ,	DRAWING NO. REV. C
*	*	D2746 SHEET 1 OF 1
 DATE		TITLE SCALE
06.01.12		WEARSHOE 1:8
A	98.04.16	NEW ISSUE
В	98.08.18	98.08.18 RE-DESIGN
C	06.01.12	06.01.12 ENLARGE HOLES TO IMPROVE FIT